

CLAIMS

WHAT IS CLAIMED IS:

- 5 1. A plant comprising at least one promoter promoting a specific level of expression and a gene operably linked to the promoter, wherein the specificity of the promoter is determined based on the expression frequency of the gene including the promoter in a cDNA  
10 database in which the gene including the promoter is included.
2. The plant according to claim 1 wherein the gene is constitutively expressed.
- 15 3. The plant according to claim 1 wherein the gene is specifically expressed in leaves.
4. The plant according to claim 1 wherein the gene is  
20 specifically expressed in callus.
5. The plant according to claim 1 wherein the plant is rice.
- 25 6. The plant according to claim 1 wherein the gene is a disease resistance gene or an insect resistance gene.
7. The plant according to claim 1 wherein the gene is a gene selected from the group consisting of a vitamin  
30 synthesizing gene, a carbohydrate synthesizing gene, a lipid synthesizing gene, a polyketide synthesizing gene, a photosynthesizing system gene, a functional component synthesizing gene and a transcription factor.

8. A promoter promoting a specific level of expression,  
wherein the specificity of the promoter is determined  
based on the expression frequency of the gene including  
5 the promoter in a cDNA database in which the gene  
including the promoter is included.

9. The promoter according to claim 8 which does not  
drive the expression of a gene in fruit.

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10. The promoter according to claim 8 which  
specifically drives the expression of a gene in leaves.

11. The promoter according to claim 8 which  
15 specifically drives the expression of a gene in callus.

12. An expression cassette comprising a promoter  
wherein the specificity of the promoter is determined  
based on the expression frequency of the gene including  
20 the promoter in a cDNA database in which the gene  
including the promoter is included.

13. The expression cassette according to claim 12 which  
promotes the constitutive expression of a gene.

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14. The expression cassette according to claim 12 which  
specifically drives the expression of a gene in leaves.

15. The expression cassette according to claim 12 which  
30 specifically drives the specific expression of a gene  
in callus.

16. An available site of a plant which is obtained from

a plant comprising at least one promoter promoting a specific expression and a gene operably linked to the promoter, wherein the specificity of the promoter is determined based on the expression frequency of the gene including the promoter in a cDNA database in which the gene including the promoter is included.

17. The available site according to claim 16 which is a leaf, a stem or a fruit.

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18. A method for producing a desired gene product, comprising the steps of:

determining the specificity of a promoter wherein the specificity of the promoter is determined based on the expression frequency of the gene including the promoter in a cDNA database in which the gene including the promoter is included;

producing a linked mixture by operably linking the promoter and a nucleic acid molecule encoding the desired gene product;

introducing the linked mixture into a plant;  
growing the plant; and  
collecting the desired gene product in the plant.

19. A method for producing a plant specifically expressing a desired gene product, comprising the steps of:

determining the specificity of a promoter wherein the specificity of the promoter is determined based on the expression frequency of the gene including the promoter in a cDNA database in which the gene including the promoter is included;

producing a linked mixture by operably linking

the promoter and a nucleic acid molecule encoding the desired gene product;

introducing the linked mixture into a plant; and  
growing the plant.

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20. The method according to claim 19 wherein the specificity of the promoter is determined by the analysis of a DNA chip.

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21. A gene product which is obtained from the plant obtained by the method according to claim 19.